CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

IAS-ANZ ISO 9001:2008 CERTIFIED

Job No.: CQCE/BBMP/KTR/W.No.15/2017-18 Date : 01.03.2018

ATTERBERG LIMITS TEST FOR GSB (COARSE GRADED)
IS : 2720 (Part - 5)

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. K.T Ramesh,** Contractor, Bangalore.

Name of work : Improvements and Re-Asphalting of Road from NH4 to Nelamaheshwari Temple Road 2nd & 3rd main Kempegowda Nagara in Dasarahalli Ward No.15, BBMP, Bangalore.

Date of Testing : 01.03.2018

As per MORTH Table : 400-01

Sl. No.	Particulars	Test Results	Standards as per Specifications
1	Liquid Limit, %	22.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

****

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2008 CERTIFIED

ob No.: CQCE/BBMP/KTR/W.No.15/2017-18 Date : 06.03.2018

GRADATION FOR WMM
MORTH TABLE-400-11

Client : **Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.

Agency : **Sri. K.T Ramesh,** Contractor, Bangalore.

Name of Work : Improvements and Re-Asphalting of Road from NH4 to Nelamaheshwari Temple Road 2nd & 3rd main Kempegowda Nagara in Dasarahalli Ward No.15, BBMP, Bangalore.

Date of Testing : 06.03.2018

Material Type : Wet Mix Macadam

Oven Dry Wt (gm): **10000**

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	229	229	2.3	97.7	95-100
22.4	2536	2765	27.7	72.4	60-80
11.2	2641	5406	54.1	45.9	40-60
4.75	1785	7191	71.9	28.1	25-40
2.36	1152	8343	83.4	16.6	15-30
0.600	628	8971	89.7	10.3	8-22
0.075	530	9501	95.0	5.0	0-8

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Authorised Signatory

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

ab No.: CQCE/BBMP/KTR/W.No.15/2017-18 **Date:** 06.03.2018

Aggregate Impact Value
IS: 2386 Part IV

lient	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
gency	**Sri. K.T Ramesh,** Contractor, Bangalore.
Jame of the Work	Improvements and Re-Asphalting of Road from NH4 to Nelamaheshwari Temple Road 2nd & 3rd main Kempegowda Nagara in Dasarahalli Ward No.15,
ype of Mix	Wet Mix Macadam
ate of Testing	06.03.2018

Sl No.	Details	Trial No. 1	2	3	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	375	377	379	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	83	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	292	292	292	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	22.13	22.55	22.96	22.54

omments:

- Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

ote:

- This test report should not be reproduced except in full, without written approval of the laboratory
- The results indicated above are based on the tests carried out on the samples received in the laboratory
- Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರ
ಶಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner

CIVIL QUALITY CONSULTANTS & ENGINEERS

(Buildings Geo-Tech & Highway Materials Testing Laboratory)
An ISO 9001: 2008 Certified Company

JAS-ANZ
ISO 9001:2000 CERTIFIED

Job No.: CQCE/BBMP/KTR/W.No.15/2017-18 06.03.2018

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** Dasarahalli Division, BBMP, Bangalore.
Agency	**Sri. K.T Ramesh,** Contractor, Bangalore.
Name of Work	Improvements and Re-Asphalting of Road from NH4 to Nelamaheshwari Temple Road 2nd & 3rd main Kempegowda Nagara in Dasarahalli Ward No.15, BBMP, Bangalore.
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Sample ID	WMM Layer
Date of Testing	06.03.2018

Result : Flakiness Index = **12.35%**

Elongation Index = **13.84%**

Result : Combined Flakiness & Elongation index **26.19%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

→ This test report should not be reproduced except in full, without written approval of the laboratory
→ The results indicated above are based on the tests carried out on the samples received in the laboratory
→ Any Query regarding the report must be reported within 15 days from the date of testing.

For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

Scanned by CamScanner